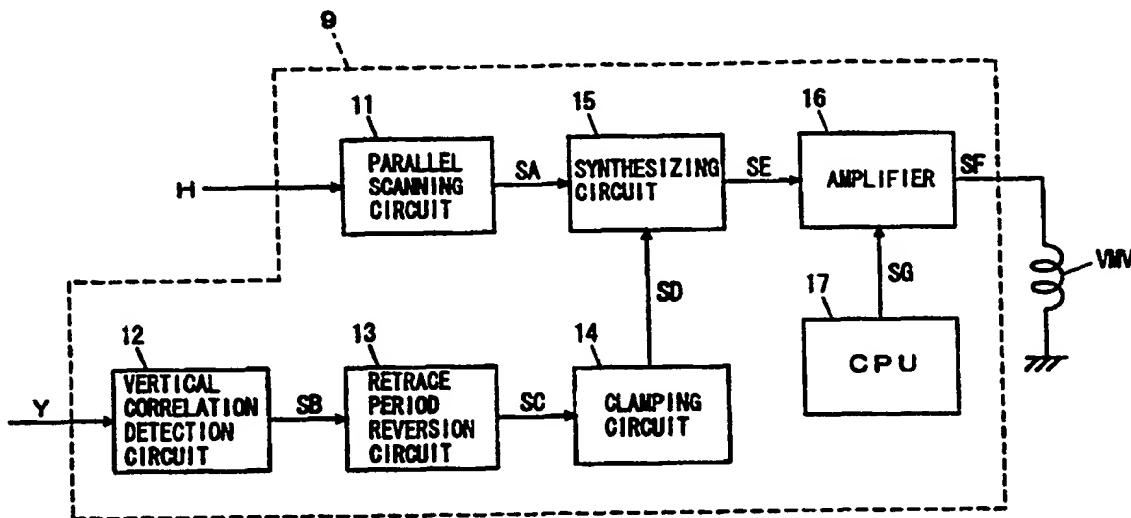




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04N 3/32, 3/30		A1	(11) International Publication Number: WO 99/65227 (43) International Publication Date: 16 December 1999 (16.12.99)
(21) International Application Number: PCT/JP99/03035		(74) Agent: FUKUSHIMA, Yoshito; Daido Seime Esaka Daini Building, 8th floor, 23-5, Esaka-cho 1-chome, Suita-shi, Osaka 564-0063 (JP).	
(22) International Filing Date: 7 June 1999 (07.06.99)		(81) Designated States: AU, CN, KR, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(30) Priority Data: 10/164913 12 June 1998 (12.06.98) 11/35006 12 February 1999 (12.02.99) 11/138395 19 May 1999 (19.05.99)		JP JP JP	Published With international search report.
(71) Applicant (for all designated States except US): MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP).			
(72) Inventors; and (75) Inventors/Applicants (for US only): UWABATA, Hideyo [JP/JP]; 6-10-1-502, Magami-cho, Takatsuki-shi, Osaka 569-1121 (JP). TERAI, Katsumi [JP/JP]; 1-10-6, Arakawa, Higashiosaka-shi, Osaka 577-0843 (JP). MIYATA, Minoru [JP/JP]; 11-1-705, Shimizu, Suita-shi, Osaka 565-0805 (JP). KITAHARA, Toshiaki [JP/JP]; 8-17-608, Motomachi, Ibaraki-shi, Osaka 567-0082 (JP). OKUMURA, Naoji [JP/JP]; 2-13-55-311, Nishikoji, Minoo-shi, Osaka 562-0003 (JP). TANAKA, Kazuto [JP/JP]; 2-2-6-604, Niono Hama, Otsu-shi, Shiga 520-0801 (JP).			

(54) Title: VIDEO DISPLAY APPARATUS WITH VERTICAL SCAN VELOCITY MODULATION AND VIDEO DISPLAY METHOD THEREFOR



(57) Abstract

A parallel scanning circuit outputs a parallel scanning signal for making forward and backward scanning lines parallel. A vertical correlation detection circuit detects a portion where the change in luminance in the vertical direction exceeds a predetermined value on the basis of a luminance signal, and outputs a movement control signal representing the distance of movement on the screen of the scanning line. A retrace period reversion circuit reverses the time axis of the movement control signal in a retrace period. A clamping circuit clamps the movement control signal to a predetermined DC voltage at the timing of horizontal synchronizing signal. A synthesizing circuit synthesizes the parallel scanning signal and the movement control signal, and feeds a synthesized signal as a vertical velocity modulation signal to a vertical velocity modulation coil.